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THE URBAN DISTRICT COUNCIL OF PORTISHEAD.

ANNUAL REPORT

OF

DR. K.G. COLLINS

MEDICAL OFFICER OF HEALTH

FOR

YEAR ENDED

31st DECEMBER, 1961.

THE URBAN DISTRICT COUNCIL OF PORTISHEAD.

154, HIGH STREET,
PORTISHEAD,
NR. BRISTOL.

TELEPHONE: PORTISHEAD 2406.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE
YEAR ENDING 31st DECEMBER, 1961.

Medical Officer of Health	Dr. K.G. Collins, M.B. Ch.B.
Engineer and Surveyor	M.F. Gilbert, M.I.Mun.E. M.R.S.H.
Housing Manager and Public Health Inspector	S. Taylor, M.R.S.H., M.A.P.H.I.
Building Inspector	G.J. Lidbury, A.F.S. M.R.I.P.H.H. A.R.S.H.

Committees concerned with matters related to Public Health:-

Works Committee,
Health Committee,
Housing Committee,
Tenancy Committee,
Accident Prevention Committee.

To the Chairman and Members of the
Urban District Council of Portishead.

Mr. Chairman, Ladies & Gentlemen,

I have the honour to submit this Report on the Health and Sanitary Condition of the District through the year. The information therein is, so far as possible, in conformity with the requirements of the Ministry of Health, as laid down, together with other material I feel worthy of record and comment.

1. POPULATION.

As assessed by the Registrar General for mid 1961:- 6,490

Rateable Value (31.12.61) £249,930

Product of Penny Rate £1,003

2. AREA. 1,119 acres. Number of permanent dwellings 1959.

3. VITAL STATISTICS.

(a) Live Births.

	<u>Male</u>	<u>Female</u>	<u>Total</u>
Legitimate	56	49	105
Illegitimate	3	5	8
Totals	59	54	113

(b) Live Birth Rate (Corrected for age distribution of population).

24.0 per 1,000 population	17.41
England and Wales	18.0

Of the 113 births, 48 occurred in the District - 42.4%

VITAL STATISTICS (Contd).

- (c) Still Births. 4 male and 1 female
Total 5.

The still-birth rate is 40.4 per 1,000 total live and still births.

- (d) Infant Deaths.

<u>Age.</u>	<u>Male.</u>	<u>Female.</u>	<u>Total.</u>
Under 1 week	1	1	2
1 to 4 weeks	Nil	Nil	Nil
1 to 12 months	Nil	Nil	Nil
Totals	1	1	2

Both were born prematurely.

- (e) Mortality Rates (*)

Infant Mortality Rate per 1,000 live births	17.7
" " " " " legitimate births	19.0
" " " " " illegitimate births	Nil
Neo-natal Mortality Rate (first 4 weeks) per 1,000 related live births	17.7
Early neo-natal Mortality Rate (first week) per 1,000 related live births	17.7
Peri-natal Mortality Rate (stillbirths and deaths during first week) per 1,000 total live and stillbirths	50.9
Percentage of illegitimate live births	7.1
Maternal Deaths (excluding abortion)	Nil
Maternal Mortality Rate (including abortions)	Nil

(*) These figures are of little significance, owing to the small numbers involved; one case, either way, producing a distorted result.

- (f) Deaths (all ages)

Total number of deaths during the year 61

Death Rate (corrected) 9.4 per 1,000

That for England and Wales for 1961 was 9.04

Deaths - Causes - (Registrar General's Figures).

	<u>Male.</u>	<u>Female.</u>	<u>Total.</u>
Tuberculosis, Respiratory	-	-	-
Cancer, Stomach	1	-	1
" Lungs and Bronchus	-	-	-
" Breast	-	1	1
" Uterus	-	-	-
" Other	3	2	5
Vascular Disease Nervous System (Strokes)	7	6	13
Coronary Heart Disease	5	2	7
Hypertension with heart disease	2	5	7
Other Heart disease	3	2	5
Other Circulatory disease	1	-	1
Pneumonia	4	2	6
Bronchitis	2	1	3
Other Respiratory disease	-	2	2
Ulcer of Stomach or Duodenum	-	-	-
Prostate Hyperplasia	-	-	-
Influenza	1	-	1
Congenital Deformities	-	2	2
Other and ill-defined disease	3	2	5
Motor Accidents	-	-	-
All other accidents	1	1	2
Totals	53	28	61

VITAL STATISTICS (Contd).

<u>Age Distribution.</u>	<u>Male.</u>	<u>Female.</u>	<u>Total.</u>
Under 1 year	1	1	2
1 and under 5	-	-	-
5 and under 15	-	1	1
15 and under 45	3	-	3
45 and under 65	7	6	13
65 and under 75	9	7	16
75 and over	13	13	26
<u>Totals.....</u>	33	28	61

The average age of the last group 81 84

The number of people who died over the age of 75 accounted for 42.6% of the total deaths.

4. NOTIFIABLE DISEASE.

The following numbers of cases of notifiable disease were reported during the year:-

<u>Disease.</u>	<u>Total Received.</u>	<u>Admitted to Hospital</u>	<u>Deaths.</u>
Scarlet Fever	-	-	-
Whooping Cough	3	-	-
Poliomyelitis	-	-	-
Measles	120	1	-
Dysentery	4	-	-
Meningococcal Infection	-	-	-
Acute Pneumonia	-	-	-
Influenzal Pneumonia	3	-	-
Tuberculosis, Respiratory	4	2	-
" Other	-	-	-
Puerpural Pyrexia	-	-	-
Food Poisoning	1	-	-

5. TUBERCULOSIS.

1 Male 3 Female All Respiratory

Three were new cases.

Mass Radiography.

The South Western Hospital Board's Unit visited Portishead on several occasions at the Car Park.

<u>Central Electricity Generating Board, Portishead.</u>	<u>Male.</u>	<u>Female.</u>	<u>Total</u>
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September, 15th, 1961.

Number X-Rayed	326	15	341
Chest Abnormalities Detected	Nil	Nil	Nil

<u>Albright & Wilson Ltd., Portishead.</u>			
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September, 19th, 1961.

Number X-Rayed	153	15	168
Chest Abnormalities Detected	Nil	Nil	Nil

<u>The Car Park, Portishead.</u>			
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September, 25th

Number X-Rayed	140	188	328
Chest Abnormalities Detected	Nil	2	2

<u>ANALYSIS</u>			
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Healed Tuberculosis	Nil	1	1
Mitral Heart	Nil	1	1

Carried Forward	619	118	837
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TUBERCULOSIS (Contd).Mass Radiography. (Contd).

	<u>Male.</u>	<u>Female.</u>	<u>Total.</u>
Carried Forward	619	118	837

National Nautical School, Portishead.
December 12th, 1961.

Numbers X-Rayed	120	5	125
Chest Abnormalities Detected	Nil	Nil	Nil
Total number examined.....	739	223	962

6. IMMUNISATION.

The following figures are supplied by the County Medical Officer of Health. The work is carried by the general practitioners and at school or welfare clinic.

Diphtheria.Primary Immunisation.

The following number completed a full course during 1961:-

167 - practically all of whom were under the age of 4.

Re-inforcing Injections:- 105 children in the 6 - 10 year age group.

Completed Courses since January 1st, 1955.

The following numbers of children have completed a course of immunisation (whether primary or booster) within the last 6 years:- 1206.

Whooping Cough.

The following number of children completed primary course (normally 3 injections) of pertussis vaccine (singly or in combination) in the year:-

155 Practically all were under 3 years of age.

Poliomyelitis.

Number of persons who received a course of primary vaccination (two injections) during 1961:-

Under 18 years	-	217
" 28 "	-	51
" 40 "	-	142
Over 40 "	-	2
Total		412
3rd injection (all ages)		461
4th injection (5 - 12)		641
Total		1,514

Smallpox.

Number of persons vaccinated during 1961 :- 89 including 72 infants of 1 or under.

Number of persons re-vaccinated during 1961:- 7

7. GENERAL PROVISION OF MEDICAL HEALTH SERVICES.

Laboratory facilities for bacteriological purposes are provided by the Public Health Laboratories at Musgrove Park Hospital, Taunton and at Canynge Ha Whatley Road, Bristol and for analytical purposes at the County Laboratory, County Hall, Taunton. Atmospheric Pollution analyses are carried out through Dr. G.V. James, appointed by this Council.

The County Medical Officer of Health and his Staff are responsible for the active operation of the Health Services under the National Health Service Acts, 1946-52. They include:-

GENERAL PROVISION OF MEDICAL HEALTH SERVICES (CONTD).

Maternity and Child Welfare,
Home Helps,
Mental Health,
Venereal Disease,
School Medical Service,
Ambulance Service,

Tuberculosis,
Home Nursing and Health Visitors,
Welfare Needs,
Public Health Laboratories,
Immunisation,

The Area Home Help Organiser is:-

Miss K. Jenkins,
National Provincial Bank Ltd.,
Clevedon.

The District Nurses are:-

The Misses E.I. Marchant, A.
Wintle and D. Robinson,
1 & 3, Link Road South,
Portishead.

The School Medical Officer is:-

Dr. M.J. Cooke,
Berwick Lodge,
19, Victoria Road,
Clevedon.

Immunisation.

Isolated outbreaks of Diphtheria, Smallpox and Poliomyelitis, emphasises the continued need for all the child population to be immunised. In addition the Poliomyelitis injection has been found far inferior to oral vaccine and I would strongly recommend all those under 5 years of age to take this course of oral vaccine irrespective of previous injections.

Ambulance.

An ambulance is stationed in Portishead and works in conjunction with the Clevedon centre. It is manned by full-time staff.

Number of patients carried - 3,322
Number of journeys made - 986

Total mileage:- 38,702

In an expanding area, both from a population and heavy industrial point of view I would regard the proposal to move the Ambulance Station to Nailsea, as extremely ill-advised and likely to lead to serious consequences.

All hospitals are under the control of the South Western Hospital Board and infectious diseases are admitted to Ham Green Hospital, which is also a General Hospital.

Meals on Wheels.

The inauguration of this service was one of the most important contributions to arise in old people's welfare for many years. The service is carried out by the ladies of the W.V.S. purely on a voluntary basis, the vehicle being bought as a result of the appeal made by the Chairman of the Council. A considerable number of old people have taken advantage of the cheap but wholesome meals provided at a cost of 1s.-d. twice weekly. The meals are subsidised partly by the County and Local Councils and our grateful thanks should be extended to Messrs. Albright & Wilson for preparing them.

A big step forward has been taken to ensure that the aged and often lonely are at last receiving the necessary nutrition so essential to keep their ever growing number healthy and help to combat the all too frequent self neglect of the past.

8. OLD FOLKS ASSOCIATION.

This active organisation receives an annual grant from the Council of £1

This little publicised service has been operating for a number of years in Bristol and District. The local representative is Miss Wilkins, a fully qualified physiotherapist, who carried out the necessary treatments in the houses of those unable by illness or infirmity to attend hospital. The service although not voluntary costs very little per visit and old age pensioners and those in financially poor circumstances can obtain these services at very small cost. This is an extremely efficient service that can cut down the time of convalescence in many cases and should receive far more credit and support than it does at present.

10. HOME HELPS.

There is an ever increasing demand for this invaluable service to the Community especially in the case of the aged and infirm. Under present circumstances their needs must be secondary to home confinement cases and it is to be hoped that this will be remedied in the near future.

11. RED CROSS.

This purely voluntary body under its able commandant continued to give its wholehearted and skilled service to the community. The members are examined in First Aid, Nursing and Housecraft annually and some of the staff work voluntarily in local hospitals.

The fact that over 3,000 people were treated for minor injuries emphasises the role the Unit plays in the District and the post should be congratulated and given every assistance both materially and financially.

12. BLOOD TRANSFUSION SERVICE.

250 persons donated their blood including 36 new donors. This is a vital service in which the general public can materially assist in the saving of human life. Many more donors would be appreciated.

13. WATER SUPPLY.

Water is available as piped supply to all houses in the District and is supplied by Bristol Waterworks Company. However, the Company found it necessary to supply larger quantities from Chelvey, whose water is of great hardness. The Council is concerned with the hardness of this water and requests have been made to the Waterworks Company to limit supplies from Chelvey.

The water is regularly examined bacteriologically by the Company.

The following is the result of examination carried out at the County Laboratory by the Public Analyst, Miss Joan D. Peden B.Sc., All results are expressed as parts per million:-

	<u>March, 1960.</u>	<u>March, 1961.</u>
Physical Characters	Clear and bright	Clear and bright
Reaction	Very slightly alkaline	Very slightly alkaline
pH	7.5	7.3
Free Carbon Dioxide	3.0	6.0
Total Solids	300.0	375.0
Total Alkalinity (as CaCO ₃)	215.0	260.0
Carbonate Hardness " "	215.0	260.0
Non-Carbonate Hardness "	60.0	70.0
Total Hardness	275.0	330.0
Chloride (as Cl)	18.0	23.0
Ammoniacal Nitrogen (as N)	0.046	Nil
Albuminoid " "	0.032	0.022
Nitrate " "	1.6	2.0
Nitrite " "	Nil	Nil

WATER SUPPLY (Contd).

	<u>March, 1960</u> <u>Contd.</u>	<u>March, 1961</u> <u>Contd.</u>
Oxygen absorbed from Permanganate in 4 hours at 27°C	0.15	0.15
Sediment	None	None
Free Chlorine	0.1	0.1
Total Chlorine	0.1	0.1
Zinc	Nil	2.0
Lead	Nil	Nil
Iron	Nil	Nil
Copper	0.2	0.5

Extensions to Supply.

These were made as needed for housing development

Future Proposals.

Extension of 3" main in Wetlands Lane from its junction with Underwood Road to the junction with St. Mary's Road, necessitated by the development of Field Nos.385 and 402 O.S. Somerset 11-9.

SEWERAGE AND SEWAGE DISPOSAL.

Except for part of Nore Road, Wetlands Lane and some dwellings at Down Road near the Long Ashton Rural District at Redcliffe Bay, the District is fully sewered. Cesspits and septic tanks are in use in the excluded areas. Development in these areas has made the provision of sewerage a priority. The Housing Estates have separate foul and surface water systems, whereas most of the town is served by the older joint system.

Extensions, New Works and Improvements.

Completed.

- (i) Construction of 9" foul water sewer to serve Clevedon Road and Wetlands Lane £2,900
- (ii) Construction of 9" foul water sewer and 24" surface sewer to development of fields 385 and 40 (O.S.) £4,100.

Future Proposals.

Approx. Cost.
£

- (i) Construction of surface water and foul water sewer systems to serve Nore Park and Redcliffe Bay area with outfalls to Channel 45,000
- (ii) New pumped rising main from Bristol Road to top of Beach Hill with ancillary works to sewer in Welly Bottom 27,000

SEWERAGE AND SEWAGE DISPOSAL (Contd).

<u>Future Proposals (Contd).</u>	<u>Approx. Cost.</u> £
(iii) New relief sewer access at the old Golf Course	5,000
(iv) New 24" and 42" surface water sewers from Combe Avenue to rhine across Victoria Square playing field	10,000

Flooding of Sewers.

The Council's policy of more regular maintenance to the sewerage scheme has been maintained.

One man is employed full time on sewer work, involving maintenance to pumps, keeping of pumping records, supervision of gully emptying and grit trap emptying and extra labour is provided under his direction for sewer dragging; repairs to manholes etc.

The road gullies are now emptied regularly three times a year, and grit traps on the sewers as required, certain traps which collect fly ash being emptied monthly, others quarterly.

There is no doubt that this policy is continuing to pay dividends, as with the growth of the town, the sewers more and more frequently are required to operate at their maximum flow efficiencies, and any deposit in the sewers substantially reduces their efficiency.

There were no cases of flooding on a large scale during the year; local ponding occurred at individual gullies usually as a result of local blocking of the gully grid with leaves during the autumn.

House refuse is removed by direct labour, using one Shelvoke & Drewry Diesel two-way tipping Refuse Truck.

Cesspool emptying is done by private arrangement with a contractor..

House and trade refuse are disposed of by controlled tipping in one tip.

16. <u>CAMPING SITES.</u>	<u>Permanent.</u>	<u>Seasonal.</u>
(a) Number of licensed individual moveable dwellings	1	Nil
(b) Number of licensed camping sites	1	Nil
(c) Maximum number of caravans allowed per acre	10	Nil
(d) Estimated number of campers resident during the year	59	
(e) Temporary caravans on Old Gas Works Site		10

17. PUBLIC CONVENIENCES.

New conveniences erected at Station Road at approximate cost of £1,750.

18. PREVENTION OF DAMAGE BY PESTS.

One of the Housing Manager's staff has had the necessary training and is employed part-time on these duties and this efficiently deals with the problem within the area of the District 22 hours per week.

19. HOUSING.

Action taken during the year:-

Clearance Areas, Sects.42, 48 & 17 (individual unfits) - 2 (1 & 2 Dock Cottages)

All temporary dwellings, except 19 'prefabs' have been demolished.

Number of houses declared unfit under Section 9 of the Housing Act, 1957 (capable of repair)	3	(47, Woodhill Road (Orwell Lodge) South (Carisdene,) Road.
Number of houses made fit during the year	3	
Number of houses closed as a result of informal action	3	79, 116 & 118 High St.

Rent Act, 1957 (1st Schedule).

Certificates of Disrepair

(a) Number of applications received	1
(b) Number of certificates issued	Nil

Houses erected during the year.

By Council	12
By Private Enterprise	95

Houses in course of erection at 31.12.61.

By Council	12
By Private Enterprise	81

Gained from conversion of large houses.

By Council	Nil
By Private Enterprise	Nil

Number of Post-war Houses (1.4.45 to 31.12.61)

By Council	540
By Private Enterprise	399

Total Number of Permanent Dwellings.

	<u>At. 31.12.60.</u>	<u>Added.</u>	<u>At. 31.12.61.</u>
Owned by Council	594	12	606
Owned by Private individuals	1,261	95	1,356
Totals	1,855	107	1,959

Old People's Dwellings.

Number erected - Nil

In course of erection - 10

Number of Temporary Housing units occupied.

(i) Prefabs	19
(ii) Huts	Nil

Number of Houses found overcrowded.

4 (No survey was undertaken)

Houses required.

(i) To replace house schedule for demolition including prefabs	19
(ii) To abate overcrowding	4
(iii) For other purposes (Old People's Bungalows)	As many as are necessary with existing economy and building space i.e. 47

Total number of applications for Council Houses at the end of the year

62

Total number as urgent bona fide cases

6

Total number of Council houses sold during the year

Nil

Housing Programme, 1961.

The Council concentrated on furthering its housing plans with regard to old people's bungalows.

The difficulties in the re-housing of the tenants of the prefabricated bungalows at the West Hill Estate remains in view of the re-siting of the main access road through the estate but it is the intention of the Council to re-house the tenants from these bungalows in existing accommodation as and when it becomes available, the site of the bungalows to be used for permanent house building.

20. IMPROVEMENT GRANTS.A. Discretionary.

Number of applications received	4	
Number of houses involved	4	
Number of applications approved	3	
Number of houses involved	3	
Number of applications approved in respect of owner/occupiers	3	
Average cost per dwelling approved	£483	(Total cost of improvement only)
Amount of grant payable by Council	£710	

B. Standard.

Number of applications received	8
Number approved	7
Standard Amenities - 7 provided	

21. FOOD.Milk.

(a) Number of Registered Distributors	2
(b) Number of Registered Dairy Premises (other than Dairy Farms)	2
(c) Number of Licensed Dealers of Designated Milk	4
(d) Number of supplementary licenses issued to distributors whose dairy is outside the area.	5

Milk Sampling is carried out by the County Authority and found satisfactory.

Ice Cream.

(a) Number of premises registered for manufacture and retail	Nil
(b) For Manufacture only	Nil
(c) For Retail only	21

Samples were taken from those selling open ice cream and all were found to be satisfactory.

22. FOOD HYGIENE.Food Hygiene Regulations, 1955.

Routine inspections of premises carried out and co-operation of occupiers found to be satisfactory. Improved washing facilities demanded in three shops. Every opportunity taken to educate young staff in cleanliness and clean food handling.

Further supervision of requested improvements and alterations to shops and licensed premises has been undertaken, but it has not been necessary to resort to statutory action.

23. SLAUGHTERHOUSES.

There is none in the District, meat sold at the local retail butchers is slaughtered and purchased at Bristol or Walsley where meat inspection is carried out by the Local Authority concerned.

Premises where Food is prepared.

There are ten premises registered under Section 16 of the Food and Drugs Act, 1955 for the preparation of Ice Cream, Meat Products etc.

24. ATMOSPHERIC POLLUTION.Clean Air Act, 1956.

The question of atmospheric pollution, particularly concerning the Central Electricity Generating Board's Power Station and the Phosphorus Factory of Messrs. Albright & Wilson Ltd., is under constant review and regular analyses from deposit gauges are made under the supervision of Dr. G.V. James.

ATMOSPHERIC POLLUTION (Contd).

Clean Air Act, 1956 (Contd).

The Consultative Committee of the Council and Messrs. Albright & Wilson Ltd. continues to meet every four months to discuss complaints etc. Reasonably close liaison is also maintained with the Central Electricity Generating Board concerning its two power stations in the district. Monthly reports are received by the Council from Dr. G.V. James on the analysis of grit deposit gauges and sulphur candles situated on selected sites in the district. Some complaints were received concerning nuisances caused by the burning of waste and sump oil but these were abated as a result of informal action.

25. AGRICULTURAL (SAFETY, HEALTH AND WELFARE PROVISIONS) ACT, 1956.

The five farms within the district were inspected. Adequate sanitary conveniences were provided in all cases.

26. FACTORIES ACT, 1957 and 1948.

Annual Report of the Medical Officer of Health in respect of the year 1961.

Part I of the Act.

1. Inspections for the purposes of provisions as to health (including those made by the Public Health Inspector).

<u>Premises.</u>	<u>Number on Register.</u>	<u>Inspections.</u>	<u>Written Notices.</u>	<u>Prosecutions.</u>
(i) Factories in which Sects. 1,2,3,4,& 6 are enforced by L.A.	13	18		-Nil-
(ii) Factories not included in (i) in which Sect.7 is enforced by L.A.	14	16		-Nil-
(iii) Other factories in which Sect.7 is enforced by L.A. (excluding out-workers premises)	7	12		-Nil-
Total	34	46		-Nil-

27. CONCLUSION.

The 1961 census provides us with some very enlightening reading and presents new problems concerning our community.

The population in 10 years has been enlarged by almost 2,000 (1969) people an increase of 44%, private households from 1325 to 1989 an increase of 50% and private dwellings from 1190 to 2028, giving the enormous increase of 70%. There can be very few areas in the whole country with comparable figures. Clearly such strides will materially continue and will call for very careful and far seeing planning both regarding housing and culture welfare activities. In particular I would draw attention to the following problems associated with the aftermath of such an upsurge in size.

Noise. This factor has been allowed to magnify distort our very daily lives. The cacophonies of Portishead are at times varied and not uninteresting. In an age where neurosis is an ever increasing evil, I feel this constant irritation must play a significant part in their production. I find it truly astonishing that byelaws that will prosecute motor vehicle offenders before midnight will allow ships sirens, diesel engines etc. to reverberate their nightly chorus throughout the District.

CONCLUSION (Contd).

Home accidents have become one of our major "diseases" especially related to the old and the young and happening in every conceivable way in our modern homes. Considerably more thought will have to be applied to practical considerations involved and to the education of our families if we are ever to hope to reduce the appalling loss of life and injury.

More people are growing old, a part of the national trend and whilst we are meeting their physical needs in a very satisfactory manner locally, I feel we should expect a better understanding and liaison from the Regional Hospital Board when dealing with their health. Too often in the past, aged people in chronic ill health, sometimes living alone and in need of hospitalisation, have been denied these facilities until in many cases it has been too late to help them.

The area remains a healthy and happy one and our standards of hygiene have improved in every direction and I know these trends will flourish and continue.

I would very much like to thank the Clerk, the Housing Manager and officers of the Council who have so kindly assisted me in the compiling of this report, and my appreciation to the Chairman and Council Members for their encouragement and support in our general endeavour to bring better health and environment to Portishead.

Yours faithfully,

K.G. Collins, M.B., Ch.B.,
Medical Officer of Health.

PORTISHEAD - ATMOSPHERIC POLLUTION.

1961.

MONTHLY RESULTS.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1961	Total 1960

Abstracted from Reports of Dr. G.V. James, through the Department of Scientific and Industrial Research.

<u>Rainfall Averages.</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>
	25.23	38.03	25.79
<u>Average Total Solids</u>			
<u>Tons/sq.mile</u>	-	242.20	143.27

